

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: METALUX

Report Number: P685414

Luminaire Tested: **8CZL-10-UNV-N-L950-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685414  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-10-UNV-N-L950-CD-U  
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @90 CRI and 5000K  
Light Source: (784) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

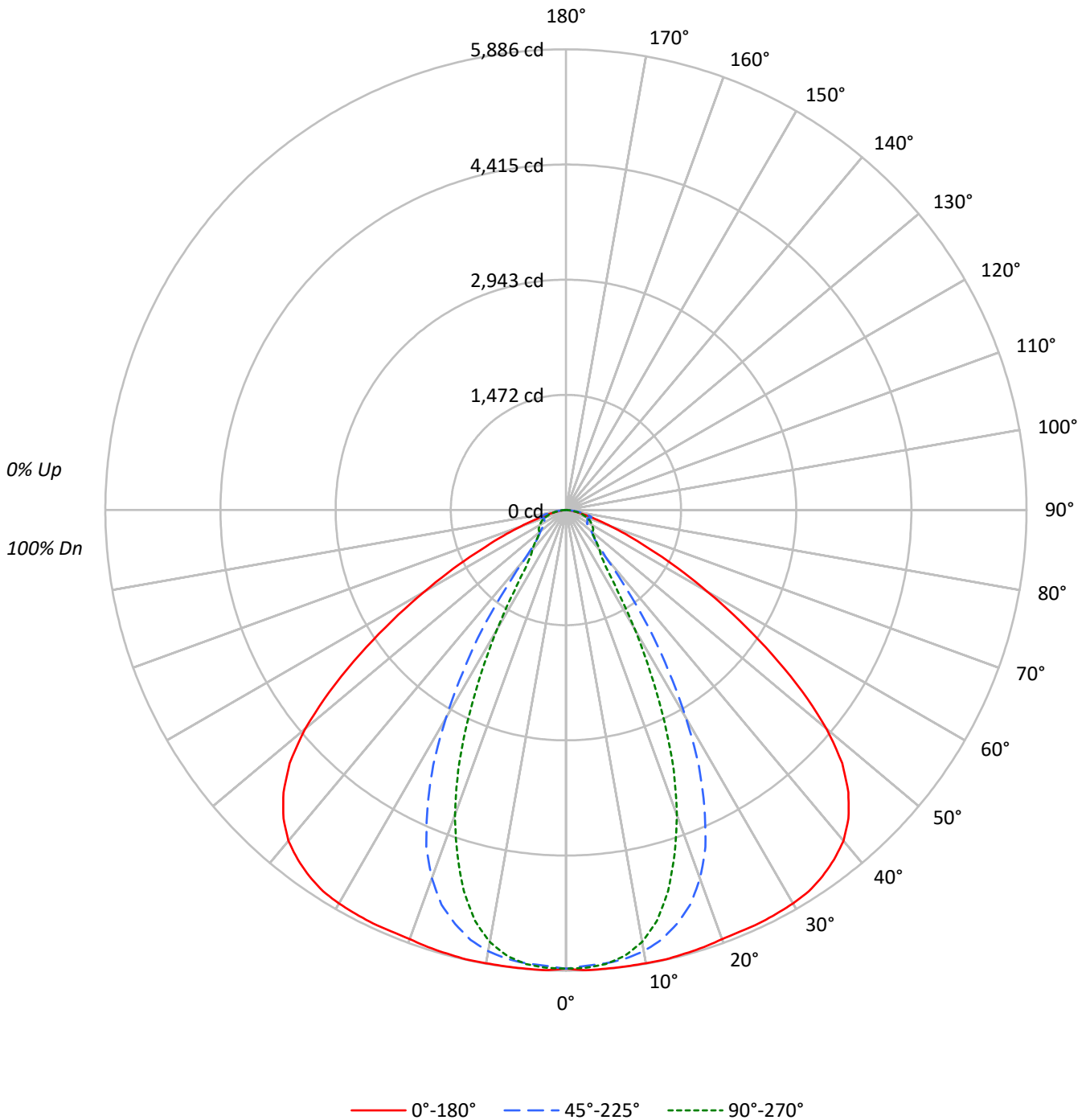
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8272.3 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Spacing Criteria (0/90/45): 1.48 / 0.81 / 0.89  
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 63  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79	79	79	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63	63	63	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9461	9461	9461
5°	9534	9424	9439
10°	9640	9384	9190
15°	9808	9152	8426
20°	10025	8606	7123
25°	10385	7459	5293
30°	10819	5713	3284
35°	11264	3693	1762
40°	11629	1719	1410
45°	11654	1167	1201
50°	10926	1069	1105
55°	9033	963	1199
60°	6761	1016	1231
65°	4558	1161	1318
70°	2893	1416	1356
75°	1745	2109	1354
80°	1065	1882	1261
85°	689	1219	865



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	554.7	6.7
10°-20°	1531.4	18.5
20°-30°	1955.9	23.6
30°-40°	1586.3	19.2
40°-50°	1122.4	13.6
50°-60°	731.0	8.8
60°-70°	448.9	5.4
70°-80°	266.6	3.2
80°-90°	74.9	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4042.0	48.9
0°-40°	5628.4	68.0
0°-60°	7481.9	90.4
0°-90°	8272.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8272.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5859	5859	5859	5859	5859	
5°	5882	5870	5815	5838	5824	561
15°	5868	5789	5475	5191	5041	1662
25°	5829	5348	4187	3255	2971	2695
35°	5715	3880	1874	1005	894	3574
45°	5104	1953	511	543	526	3893
55°	3209	658	342	399	426	2868
65°	1193	337	304	365	345	1240
75°	280	191	338	248	217	326
85°	37	74	66	59	47	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5859.4	5859.4	5859.4	5859.4	5859.4
2.5°	5885.5	5874.0	5829.2	5864.4	5854.4
5°	5882.5	5869.9	5814.7	5838.3	5823.7
7.5°	5880.5	5861.9	5783.5	5776.5	5746.4
10°	5880.0	5847.3	5723.8	5655.9	5605.2
12.5°	5881.0	5823.2	5625.8	5476.1	5373.1
15°	5867.9	5788.6	5475.1	5190.8	5040.6
17.5°	5855.9	5709.2	5285.2	4841.6	4616.1
20°	5834.3	5630.8	5008.9	4413.6	4145.4
22.5°	5828.2	5512.3	4659.8	3862.6	3596.8
25°	5829.2	5348.0	4187.1	3255.2	2970.9
27.5°	5818.2	5129.0	3672.2	2668.0	2331.4
30°	5803.1	4818.5	3064.3	2038.5	1761.2
32.5°	5776.5	4383.0	2441.9	1452.8	1222.7
35°	5714.7	3879.6	1873.8	1005.2	893.7
37.5°	5628.8	3320.0	1263.4	754.5	736.4
40°	5517.3	2812.1	815.8	659.6	669.1
42.5°	5344.5	2373.6	595.8	599.8	600.8
45°	5103.9	1953.1	510.9	543.0	526.0
47.5°	4787.4	1533.7	464.2	473.2	470.7
50°	4349.8	1148.4	425.5	423.5	440.1
52.5°	3808.8	849.5	385.8	402.9	434.0
55°	3209.0	657.6	342.1	399.4	426.0
57.5°	2633.8	533.0	317.0	389.3	404.9
60°	2093.8	444.1	314.5	370.7	381.3
62.5°	1617.6	380.8	313.0	361.7	365.7
65°	1193.1	337.1	303.9	364.7	345.1
67.5°	869.1	323.0	296.9	359.7	318.0
70°	612.9	283.8	299.9	332.1	287.3
72.5°	415.9	237.1	333.6	292.9	251.7
75°	279.8	191.4	338.1	247.7	217.0
77.5°	181.9	159.2	287.3	202.4	179.8
80°	114.5	132.6	202.4	155.7	135.6
82.5°	74.3	102.0	128.1	110.0	93.4
85°	37.2	74.3	65.8	58.8	46.7
87.5°	22.1	45.2	35.2	25.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)